

# Connections to other Labs

## AtomLab - ResLab

| Cable      | Application              | Informations                                        |
|------------|--------------------------|-----------------------------------------------------|
| BNC 1      | Beat with comb           | -                                                   |
| BNC 2      | Photodiode behind cavity | -                                                   |
| BNC 3      | CCD behind cavity R1     | -                                                   |
| BNC 4      | Photodiode behind fiber  | RF: Fiberstabilization / mix down<br>DC: ~ 15-20 mW |
| BNC 5      | External frequency       |                                                     |
| BNC 6      | External Reset           |                                                     |
| BNC red    | -                        |                                                     |
| BNC white  | -                        |                                                     |
| BNC blue   | -                        |                                                     |
| BNC yellow | -                        |                                                     |
| BNC green  | -                        |                                                     |
| LAN-cable  | PTB                      | colour: red                                         |

## Fiber

| Fiber        | Application                                   | Informations |
|--------------|-----------------------------------------------|--------------|
| 914 nm       | Clocklaser                                    | 20 mW        |
| 780 nm       | for beat measurements with the frequency comb | -            |
| Dublex-Fiber | Fiberstabilization from Hannover to PTB       | -            |

## Uni top - ResLab

| Cable                                      | Application | Informations                                                                                                                        |
|--------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|
| N-Connector / GPS<br>Antenna on roof-label | GPS Antenna | Currently connected: JAVAD Ringant G3T (for Geo++ TRE-G3T GPS Receiver); Also available another antenna on top for K&K GPS Receiver |

## Qport - ResLab

| Connections           | Application        | Informations             |
|-----------------------|--------------------|--------------------------|
| BNC / QPortRef-label  | 10 MHz             | from 10MHz distributor   |
| BNC / QPortRef2-label | 987.733 MHz; +2dBm | from Marconi Synthesizer |
| Fiber                 | 1064nm; ~75mW      | Mephisto-laser           |

## Thijs - ResLab

| Connections                   | Application | Informations           |
|-------------------------------|-------------|------------------------|
| BNC / D220-label (AriCell-10) | 10 MHz      | from 10MHz distributor |

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